

# Qilin Gu

## List of Publications by Year in descending order

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53  
papers

2,316  
citations

201674

27  
h-index

214800

47  
g-index

54  
all docs

54  
docs citations

54  
times ranked

2763  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rational Design of Holey 2D Nonlayered Transition Metal Carbide/Nitride Heterostructure Nanosheets for Highly Efficient Water Oxidation. <i>Advanced Energy Materials</i> , 2019, 9, 1803768.	19.5	204
2	Hierarchical Micro-Nano Sheet Arrays of Nickel-Cobalt Double Hydroxides for High-Rate Ni-Zn Batteries. <i>Advanced Science</i> , 2019, 6, 1802002.	11.2	202
3	Ceramic-based membranes for water and wastewater treatment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 578, 123513.	4.7	179
4	Design and analysis of negative permittivity behaviors in barium titanate/nickel metacomposites. <i>Acta Materialia</i> , 2020, 185, 412-419.	7.9	154
5	CuCo <sub>2</sub> S <sub>4</sub> Nanosheets@N-Doped Carbon Nanofibers by Sulfurization at Room Temperature as Bifunctional Electrocatalysts in Flexible Quasi-Solid-State Zn-Air Batteries. <i>Advanced Science</i> , 2019, 6, 1900628.	11.2	123
6	Dendrite-Free Potassium Metal Anodes in a Carbonate Electrolyte. <i>Advanced Materials</i> , 2020, 32, e1906735.	21.0	107
7	Crystalline Structure, Defect Chemistry and Room Temperature Colossal Permittivity of Nd-doped Barium Titanate. <i>Scientific Reports</i> , 2017, 7, 42274.	3.3	89
8	Permittivity transition from positive to negative in acrylic polyurethane-aluminum composites. <i>Composites Science and Technology</i> , 2020, 188, 107969.	7.8	78
9	Black Phosphorus@Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Composites with Engineered Chemical Bonds for Commercial-Level Capacitive Energy Storage. <i>ACS Nano</i> , 2021, 15, 12975-12987.	14.6	70
10	Ultra-long VO <sub>2</sub> (A) nanorods using the high-temperature mixing method under hydrothermal conditions: synthesis, evolution and thermochromic properties. <i>CrystEngComm</i> , 2013, 15, 2753.	2.6	58
11	Epsilon-negative BaTiO <sub>3</sub> /Cu composites with high thermal conductivity and yet low electrical conductivity. <i>Journal of Materiomics</i> , 2020, 6, 145-151.	5.7	58
12	Metal-Organic Frameworks (MOFs)-boosted filtration membrane technology for water sustainability. <i>APL Materials</i> , 2020, 8, .	5.1	54
13	3D-printed surface-patterned ceramic membrane with enhanced performance in crossflow filtration. <i>Journal of Membrane Science</i> , 2020, 606, 118138.	8.2	53
14	Heterogeneous ZIF-L membranes with improved hydrophilicity and anti-bacterial adhesion for potential application in water treatment. <i>RSC Advances</i> , 2019, 9, 1591-1601.	3.6	51
15	Chemical-grafting of graphene oxide quantum dots (GOQDs) onto ceramic microfiltration membranes for enhanced water permeability and anti-organic fouling potential. <i>Applied Surface Science</i> , 2020, 502, 144128.	6.1	50
16	Developing better ceramic membranes for water and wastewater Treatment: Where microstructure integrates with chemistry and functionalities. <i>Chemical Engineering Journal</i> , 2022, 428, 130456.	12.7	49
17	Modified Solvothermal Strategy for Straightforward Synthesis of Cubic NaNbO <sub>3</sub> Nanowires with Enhanced Photocatalytic H <sub>2</sub> Evolution. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25956-25964.	3.1	48
18	Effect of gradient profile in ceramic membranes on filtration characteristics: Implications for membrane development. <i>Journal of Membrane Science</i> , 2020, 595, 117576.	8.2	42

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19	A self-cleaning zwitterionic nanofibrous membrane for highly efficient oil-in-water separation. <i>Science of the Total Environment</i> , 2020, 729, 138876.	8.0	40
20	Low-loss and temperature-stable negative permittivity in La <sub>0.5</sub> Sr <sub>0.5</sub> MnO <sub>3</sub> ceramics. <i>Journal of the European Ceramic Society</i> , 2020, 40, 1917-1921.	5.7	38
21	Hydrogenated TiO <sub>2</sub> membrane with photocatalytically enhanced anti-fouling for ultrafiltration of surface water. <i>Applied Catalysis B: Environmental</i> , 2020, 264, 118528.	20.2	37
22	Large magnetoelectric effect and resonance frequency controllable characteristics in Ni <sup>2+</sup> /lead zirconium titanate <sup>2+</sup> /Ni cylindrical layered composites. <i>Journal of Alloys and Compounds</i> , 2011, 509, 5163-5166.	5.5	36
23	Stabilized temperature-dependent dielectric properties of Dy-doped BaTiO <sub>3</sub> ceramics derived from sol-hydrothermally synthesized nanopowders. <i>Ceramics International</i> , 2016, 42, 3170-3176.	4.8	36
24	Silicon carbide microfiltration membranes for oil-water separation: Pore structure-dependent wettability matters. <i>Water Research</i> , 2022, 216, 118270.	11.3	36
25	Hydrothermally synthesized barium titanate nanostructures from K <sub>2</sub> Ti <sub>4</sub> O <sub>9</sub> precursors: Morphology evolution and its growth mechanism. <i>Materials Research Bulletin</i> , 2014, 57, 162-169.	5.2	30
26	Bundle-like Na <sup>+</sup> -NaV <sub>2</sub> O <sub>5</sub> mesocrystals: from synthesis, growth mechanism to analysis of Na-ion intercalation/deintercalation abilities. <i>Nanoscale</i> , 2016, 8, 1975-1985.	5.6	30
27	Epsilon-negative behavior of BaTiO <sub>3</sub> /Ag metacomposites prepared by an in situ synthesis. <i>Ceramics International</i> , 2020, 46, 9342-9346.	4.8	28
28	Interfacial diffusion assisted chemical deposition (ID-CD) for confined surface modification of alumina microfiltration membranes toward high-flux and anti-fouling. <i>Separation and Purification Technology</i> , 2020, 235, 116177.	7.9	27
29	Overcoming the Trade-off between Water Permeation and Mechanical Strength of Ceramic Membrane Supports by Interfacial Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 29199-29211.	8.0	26
30	Ceramic-Polymer Composite Membranes for Water and Wastewater Treatment: Bridging the Big Gap between Ceramics and Polymers. <i>Molecules</i> , 2021, 26, 3331.	3.8	26
31	Low-temperature solid-state synthesis and optical properties of ZnO/CdS nanocomposites. <i>Journal of Alloys and Compounds</i> , 2015, 618, 67-72.	5.5	25
32	Surface engineered alumina microfiltration membranes based on rationally constructed core-shell particles. <i>Journal of the European Ceramic Society</i> , 2020, 40, 5951-5958.	5.7	20
33	Low-temperature sintering and enhanced dielectric properties of alkali niobate ceramics prepared from solvothermally synthesized nanopowders. <i>Ceramics International</i> , 2017, 43, 1135-1144.	4.8	18
34	Low-temperature sintering of silicon carbide membrane supports from disks to single- and 19-channel tubes. <i>Journal of the European Ceramic Society</i> , 2022, 42, 2597-2608.	5.7	18
35	Rod-like NaNbO <sub>3</sub> : mechanisms for stable solvothermal synthesis, temperature-mediated phase transitions and morphological evolution. <i>RSC Advances</i> , 2014, 4, 15104-15110.	3.6	16
36	A metastable cubic phase of sodium niobate nanoparticles stabilized by chemically bonded solvent molecules. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 33171-33179.	2.8	16

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37	Improved sintering activity and piezoelectric properties of PZT ceramics from hydrothermally synthesized powders with Pb excess. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 8573-8579.	2.2	13
38	Effects of surfactant and reaction time on the formation and photocatalytic performance of Cu <sub>2</sub> S thin films grown in situ on Cu foil by hydrothermal method. <i>Journal of Alloys and Compounds</i> , 2016, 685, 266-271.	5.5	13
39	Nanowires versus nanosheets – Effects of NiCo <sub>2</sub> O <sub>4</sub> nanostructures on ceramic membrane permeability and fouling potential. <i>Separation and Purification Technology</i> , 2019, 215, 644-651.	7.9	13
40	Effect of surface-patterned topographies of ceramic membranes on the filtration of activated sludge and their interaction with different particle sizes. <i>Journal of Membrane Science</i> , 2022, 645, 120125.	8.2	13
41	One-Step Surfactant-Free Hydrothermal Synthesis of Platelike Sodium Niobate Template Powders. <i>Journal of the American Ceramic Society</i> , 2014, 97, 3360-3362.	3.8	12
42	Microwave-assisted sol-gel hydrothermal synthesis of tetragonal barium titanate nanoparticles with hollow morphologies. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 1597-1601.	2.2	12
43	Highly permeable Al <sub>2</sub> O <sub>3</sub> microfiltration membranes with holey interior structure achieved through sacrificial C particles. <i>Journal of the American Ceramic Society</i> , 2020, 103, 3361-3372.	3.8	11
44	Ultrathin TiO <sub>2</sub> microfiltration membranes supported on a holey intermediate layer to raise filtration performance. <i>Journal of the European Ceramic Society</i> , 2021, 41, 1622-1628.	5.7	11
45	Hierarchically porous interlayer for highly permeable and fouling-resistant ceramic membranes in water treatment. <i>Separation and Purification Technology</i> , 2022, 293, 121092.	7.9	10
46	Alumina double-layered ultrafiltration membranes with enhanced water flux. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 587, 124324.	4.7	9
47	Solvothermal Synthesis and Formation Mechanism of Potassium Sodium Niobate Mesocrystals Under Low Alkaline Conditions. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 4934-4940.	0.9	6
48	Revealing the hydrothermal crystallization mechanism of ilmenite-type sodium niobate microplates: the roles of potassium ions. <i>CrystEngComm</i> , 2017, 19, 5966-5972.	2.6	6
49	Spatially confined growth of carbon nanotubes in the pore channels of microporous ceramic supports with improved filtration efficiency. <i>Nanoscale</i> , 2022, 14, 10091-10100.	5.6	5
50	3D spray-coated gradient profile ceramic membranes enables improved filtration performance in aerobic submerged membrane bioreactor. <i>Water Research</i> , 2022, 220, 118661.	11.3	4
51	Potassium Batteries: Dendrite-Free Potassium Metal Anodes in a Carbonate Electrolyte ( <i>Adv. Mater.</i> ) Tj ETQq1 1 0,784314 1gBT /Ov	21.0	3
52	Melded ceramic membranes: A novel fabrication method for ultrathin alumina membranes of high performance. <i>Journal of the American Ceramic Society</i> , 2022, 105, 6554-6569.	3.8	3
53	Elucidating the effects of high temperature mixing method under hydrothermal condition (HTMM) on grain refinements and assembling structures. <i>Powder Technology</i> , 2017, 305, 440-446.	4.2	0